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Total No. of Pages : 02

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**B.Sc.(MLS) (2013 to 2017) (Sem.-4)****APPLIED HAEMATOLOGY****Subject Code : BMLS-403****M.Code : 48118****Time : 3 Hrs.****Max. Marks : 60****INSTRUCTION TO CANDIDATES :**

1. **SECTION-A** is **COMPULSORY** consisting of **TEN** questions carrying **TWO** marks each.
2. **SECTION-B** contains **FIVE** questions carrying **FIVE** marks each and students have to attempt any **FOUR** questions.
3. **SECTION-C** contains **THREE** questions carrying **TEN** marks each and students have to attempt any **TWO** questions.

**SECTION-A****1. Answer briefly :**

- a. Define Schilling test.
- b. Discuss Sucrose lysis test.
- c. What is the significance of MPO?
- d. What is the function of transferrin?
- e. What do you know by Metaphasic Arrest?
- f. What is full form of PNH?
- g. What do you mean by Curie?
- h. Name some platelet agonists.
- i. How factor XIII stabilizes fibrin clot?
- j. What is Philadelphia chromosome?

### SECTION-B

2. What are leukamoid reactions?
3. Write a short note on cytochemical staining.
4. Write about the lab diagnosis of hemophilia and von-willebrand disease.
5. Write a note on classification of chromosomes based on the position of centromere.
6. Write a short note on the use of various radioactive isotopes used in hematology.

### SECTION-C

7. What is pernicious anemia? Discuss the mechanism of pernicious anemia.
8. What are various investigations done for a case suspected to be suffering from iron deficiency anemia? Discuss the significance of each test done.
9. What is leukemia? Discuss in detail the FAB classification in case of AML.

**NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.**